

Patent Claims

1. A method for configuring a device (EG) in a data network (LAN),

5 where

in step a) a domain name is stored in the device (EG),

in step b) the device (EG) transmits a request message, which comprises the domain name, to an addressing server (DNS) which is used to convert between domain names and the Internet addresses associated therewith,

10 in step c) the addressing server (DNS) transmits to the device (EG), in response to the request message, address information from a parameter server (ADS) associated with this device (EG),

15 in step d) the device (EG) uses the address information to set up a connection to the parameter server (ADS), and

20 in step e) the parameter server (ADS) uses this connection to transmit to the device (EG) parameters which are used to configure the device (EG).

25 2. The method as claimed in patent claim 1,

characterized in that

the data network (LAN) used is a voice data network in which voice information is sent in data packets on the basis of the Internet protocol.

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3. The method as claimed in patent claim 1 or 2,

characterized in that

the domain name is the name of that domain which has the device (EG) associated with it.

4. The method as claimed in one of the preceding patent claims,
characterized in that
the addressing server (DNS) uses data records to store
5 the Internet protocol addresses of the associated servers for the respective names of domains,
in that the address information from the parameter server (ADS) associated with the device (EG) is stored
in a text field which belongs to the data record which
10 belongs to the domain name associated with this device (EG),
and in that the content of this text field is sent to the device (EG) as the response.
- 15 5. The method as claimed in one of the preceding patent claims,
characterized in that
the addressing server (DNS) used is a domain name system server.
- 20 6. The method as claimed in one of the preceding patent claims,
characterized in that
in step a) an input from a user or administrator inputs
25 and stores the domain name on the device (EG).
7. The method as claimed in one of patent claims 1 to 5,
characterized in that
30 in step a) the DHCP method is used to send the device (EG), after it has been started up, the domain name for storage and/or the device (EG) is allocated a valid Internet address.

8. The method as claimed in one of patent claims 1 to
7,

characterized in that

5 in step a) a fictitious domain name which does not
belong to a real domain is stored in the
device (EG) as the domain name.

9. The method as claimed in patent claim 8,
characterized in that

10 in step a) not only the fictitious domain name but
also a real domain name, which is the
domain name with which the device (EG) is
associated, is stored in the device (EG) as
domain name,

15 in step b) a first attempt is used to transmit the
request message with the real domain name
to the addressing server (DNS), and

in step c) if no address information can be
ascertained in the addressing server (DNS)
20 using the domain name transmitted in the
first attempt then the addressing server
(DNS) sends a negative acknowledgement
message to the device (EG) as address
information, with

25 the terminal using a second attempt,
following receipt of the negative
acknowledgement message, to send a further
request message with the fictitious domain
name to the addressing server (DNS).

10. An arrangement for configuring a device (EG) in a data network (LAN),
where the device (EG) is provided with a memory for storing a domain name,
5 with an addressing server (DNS) which is used to allocate domain names to Internet addresses,
and with a parameter server (ADS) which stores parameters which can be used to configure the device (EG) for operation in the data network (LAN),
10 where the device (EG), the addressing server (DNS) and the parameter server (ADS) are connected via the data network (LAN),
where the device (EG) is designed to transmit a request message to the addressing server (DNS), said request
15 message comprising the domain name stored in the device (EG),
where the addressing server (DNS) comprises means for transmitting to the device (EG), in response to the request message, the address information from the
20 parameter server (ADS) associated with this device (EG) using the domain name transmitted by the device (EG),
and
where the parameter server (ADS) is designed to send the parameters to the device (EG).
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11. The arrangement as claimed in patent claim 10,
characterized in that
the data network (LAN) is a voice data network in which
voice information is sent in data packets on the basis
30 of the Internet protocol.

12. The arrangement as claimed in either of patent claims 10 and 11,
characterized in that
the addressing server (DNS) uses data records to store
5 the Internet protocol addresses of the associated servers for the respective names of domains,
in that the address information from the parameter server (ADS) associated with the device (EG) is stored in a text field which belongs to the data record which
10 belongs to the domain name stored in this device (EG),
and in that the response comprises the content of this text field.
13. The arrangement as claimed in one of patent claims 10 to 12,
characterized in that
the addressing server (DNS) is a domain name system server.
- 20 14. The arrangement as claimed in patent claims 10 to 13,
characterized in that
the data network contains a DHCP server which is connected to the device (EG) via the data network (LAN)
25 and which is designed to send a domain name to the device (EG) using the DHCP method after said device has been started up, the domain name being that domain name which is used by the device (EG) in the request message.
- 30 15. The arrangement as claimed in patent claim 14,
characterized in that
the device (EG) is associated with a domain in the data network (LAN), and the domain name sent in the request
35 message is the name of this domain.

16. The arrangement as claimed in one of patent
claims 12 to 14,
characterized in that
the addressing server (DNS) stores a data record with a
5 fictitious domain name which does not belong to a real
domain, and
in that the fictitious domain name is simultaneously
stored as domain name in the memory of devices (EG) in
which no domain name for a real domain associated
10 therewith is stored.